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By permission of the Chairman, Mr. Hennessy explained some results at which he had arrived since the last meeting of the Academy, relative to the influence of latitude on the positions of the isothermal lines at the surface of the earth. Setting out from the general laws of radiant heat, he had arrived at a mathematical expression for the quantity of solar heat received at a limited area of the earth's surface, which depends on an elliptic function whose modulus is the sine of the inclination of the equator to the ecliptic. From this he was able to deduce the theorem already announced as to the transportation of the closed isothermal lines of an island towards the pole, by introducing the influence of latitude. It follows also, that the isothermal lines will be crowded more closely together towards the poles. He has found that the parallel of either hemisphere, which receives the greatest amount of heat from direct solar radiation, while the sun is at the same side of the equator, has a latitude of $7^{\circ} 24'$.

Rev. Dr. Graves read a paper on the extension of Taylor's theorem to non-commutative symbols.

The Secretary read extracts of a letter from Mr. James Gilmour, of Coleraine, explaining the exact locality where the ancient gold fibula, called the Dalraida brooch in the *Ulster Journal of Archæology*, No. 13, was found. He also stated that Dr. Aquilla Smith had ascertained its specific gravity to be 15.45, and not 16.248. By permission of Mr. Gilmour, the brooch was exhibited.

Dr. Petrie made some remarks on the ornamentation of the brooch, and explained that it was chiefly interesting as being made of gold, and gave it as his opinion that it could not be earlier than the end of the eleventh or beginning of the twelfth century.

The thanks of the Academy were given to Mr. Gilmour for his kindness in lending the brooch for exhibition to the Academy.

Dr. Corrigan made a short communication on the action of the wind in different directions producing waves on the surface of water in a glass vivarium, with the view of exhibiting a class of phenomena on a very small scale, which in nature he thought might in some degree explain the effects of the wind on lakes bounded more or less by mountains.

Dr. Neligan and Mr. Hennessy made some remarks.